Author index

Aerts, L. *see* Marynissen, G.
Andersson, D., Gennser, G. & Johnson, P. Phase characteristics of thoraco-abdominal breathing movements in healthy newborns, 289

Bailey, E. *see* Caswell, A. M.
Bartag, I. *see* Girard, H.
Bassett, J. M., Burks, Anne H. & Pinches, R. Effects of intravenous glycine infusion on plasma glucagon, insulin and metabolite concentrations in lambs before and after birth, 51
Bassett, J. M. *see* Bell, A. W.
Bell, A. W., Bassett, J. M., Chandler, K. D. & Boston, R. C. Fetal and maternal endocrine responses to exercise in the pregnant ewe, 129
Boer, G. J. *see* Swaab, D. F.
Bois-Joyeux, Brigitte *see* Duee, P. H.
Boston, R. C. *see* Bell, A. W.
Burks, Anne H. *see* Bassett, J. M.

Caswell, A. M., Higham, F. C. & Bailey, E. Hepatic lipogenesis and ketogenesis in the mother and fetus during postmaturity in the rat, 299
Challis, J. R. C. *see* Vilos, G. A.
Chandler, K. D. *see* Bell, A. W.
Chou, P. J. *see* Scott, S. M.
Colenbrander, B. *see* Fentener van Vlissingen, J. M.
Comline, R. S. *see* Silver, Marian
Crone, R. K., Davies, P., Liggins, G. C. & Reid, L. The effects of hypophysectomy, thyroidectomy, and postoperative infusion of cortisol or adrenocorticotrophin on the structure of the ovine fetal lung, 281

Davies, P. *see* Crone, R. K.
Duée, P. H., Pégorier, J.-P., Bois-Joyeux, Brigette & Girard, J. Fuel metabolism and energy stores in fasting or suckling newborn guinea pigs, 383

Elphick, M. C. *see* Stammers, J. P.

Fentener van Vlissingen, J. M., Colenbrander, B. & Wensing, C. J. G. Morphological development of the thyroid gland and serum T4-concentration in the intact and decapitated pig fetus, 361
Fisher, D. A. *see* Scott, S. M.
Fowden, Abigail L. *see* Silver, Marian

Gennser, G. *see* Andersson, D.
Ghishan, Fayez, K., Moran, Roberto, Nichols, Sharon & Hoyumpa, Anastacio. Developmental kinetic of colonic calcium transport, 333
Ghishan, Fayez, K. *see* Moran, J. Roberto
Gilbert, R. D. *see* Nelson, P. S.
Gilbert, R. D. *see* Smith, A. D.
Girard, H., Klappstein, S., Bartag, I. & Moll, W. Blood circulation and oxygen transport in the fetal guinea pig, 181
Girard, J. *see* Duee, P. H.

Phase characteristics of thoraco-abdominal breathing movements in healthy newborns
D. Andersson, G. Gennser & P. Johnson 289

Hepatic lipogenesis and ketogenesis in the mother and fetus during postmaturity in the rat
Alison M. Caswell, F. C. Higham & E. Bailey 299

Fetal and maternal endocrine changes during the induction of parturition with the PGF analogue cloprostenol in chronically catheterized sows and fetuses
Marian Silver, R. S. Comline & Abigail L. Fowden 307

Placental transfer of free fatty acids: factors affecting transfer across the guinea pig placenta
C. R. Thomas & C. Lowy 323

Developmental kinetics of colonic calcium transport
Fayez K. Ghishan, Roberto Moran, Sharon Nichols & Anastacio Hoyumpa 333

Accelerated prepartum maturation of the fetal sheep lung with physiological doses of adrenocorticotrophin
G. A. Vilos, J. R. G. Challis, S. J. Lye, F. Possmayer & P. G. Harding 341

Number 6, December 1983

GABA mediated inhibition of breathing in the late gestation sheep fetus
Barbara. M. Johnston & P. D. Gluckman 353

Morphological development of the thyroid gland and serum T4-concentration in the intact and decapitated pig fetus
J. M. Fentener van Vlissingen, B. Colenbrander & C. J. G. Wensing 361

The endocrine pancreas during pregnancy and lactation in the rat
G. Marynissen, L. Aerts & F. A. Van Assche 373

Fuel metabolism and energy stores in fasting or suckling newborn guinea pigs
P. H. Duée, J.-P. Pégorier, Brigette Bois-Joyeux & J. Girard 383

Effect of maternal diet during late pregnancy on fetal lipid stores in rabbits
J. P. Stammers, M. C. Elphick & D. Hull 395

Changes in permeability of fetal guinea pig skin during gestation
Benita Stiles & G. G. Power 405

Nerve growth factor concentration in a congenitally hypothyroid mouse model (hyt/hyt) and its responsitivity to thyroxine treatment
S. M. Scott, P. J. Chou & D. A. Fisher 413

Parsons, Yvonne *see* Gluckman, P. D.
Pegorier, J. P. *see* Duee, P. H.
Pinches, R. *see* Bassett, J. M.
Possmayer, F. *see* Vilos, G. A.
Power, G. S. *see* Stiles, Benita

Reid, L. *see* Crone, R. K.
Ritchie, J. W. K. *see* Jones, C. T.
Robinson, J. S., Jones, C. T. & Kingston, E. Jane. Studies on experimental growth retardation in sheep. The effects of maternal hypoxaemia, 89
Robinson, J. S. *see* Jones, C. T.
Robinson, J. S. *see* Taylor, M. J.
Rolph, T. P. & Jones, C. T. Regulation of glycolytic flux in the heart of the fetal guinea pig, 31

Scott, S. M., Chou, P. J. & Fisher, D. A. Nerve growth factor concentration in a cogentially hypothyroid mouse model (hyt/hyt) and its responsivity to thyroxine treatment, 413
Sigger, J. N. *see* Harding, R.
Silver, Marian, Canline, R. S. & Fowden, Abigail L. Fetal and maternal endocrine changes during the induction of parturition with the PGF analogue cloprostenol in chronically catheterized sows and fetuses, 307
Smith, S. D., Gilbert, R. D. & Longo, L. D. Placental exchange area in guinea pigs following long-term maternal exercise: a stereological analysis, 11
Soifer, S. J., Morin, F. C. III, Kaslow, D. C. & Heymann, M. A. The developmental effects of prostaglandin D_2 (PGD_2) on the pulmonary and systemic circulations in the newborn lamb, 237
Stammers, J. P., Elphick, M. C. & Hull, D. Effect of maternal diet during late pregnancy on fetal lipid stores in rabbits, 395
Stiles, Benita & Power, G. S. Changes in permeability of fetal guinea pig skin during gestation, 405
Swaab, D. F. & Boer, G. J. Neuropeptides and brain development. Current perils and future potential, 67

Taylor, M. J., McMillen, I. C., Jenkin, G., Robinson, J. S. & Thorburn, G. D. The regulation of ovine placental lactogen: the role of the fetal hypothalamic-pituitary axis, 251
Thomas, C. R. & Lowy, C. Placental transfer of free fatty acids: factors affecting transfer across the guinea pig placenta, 323
Thorburn, G. D. *see* Taylor, M. J.

Van Assche, F. A. *see* Marynissen, G.
van Dijk, J. P., van Kreel, B. K. & Heeren, J. W. A. Iron metabolism and placental iron transfer in the guinea pig, 195
van Dijk, J. P. *see* van Kreel, B. K.
van Kreel, B. K. & van Dijk, J. P. Mechanisms involved in the transfer of calcium across the isolated guinea pig placenta, 155
van Kreel, B. K. *see* van Dijk, J. P.
Vilos, G. A., Challis, J. R. C., Lye, S. J., Possmayer, F. & Harding, P. G. Accelerated prepartum maturation of the fetal sheep lung with physiological doses of adrenocorticotrophin, 341

Walker, D. *see* Jones, C. T.
Wensing, C. J. G. *see* Fentener van Vlissingen, J. M.
Wickham, P. J. D. *see* Harding, R.

Gluckman, P. D. & Parsons, Yvonne. Stereotaxic method and atlas for the ovine fetal forebrain, 101
Gluckman, P. D. *see* Gunn, Tania R.
Gluckman, P. D. *see* Johnston, Barbara M.
Gunn, Tania R. & Gluckman, P. D. Development of temperature regulation in the fetal sheep, 167

Harding, P. G. *see* Vilos, G. A.
Harding, R., Sigger, J. N. & Wickham, P. J. D. Fetal and maternal influences on arterial oxygen levels in the sheep fetus, 267
Heeren, J. W. A. *see* van Dijk, J. P.
Heymann, M. A. *see* Soifer, S. J.
Higham, F. C. *see* Caswell, A. M.
Hoyumpa, Anastacio *see* Ghisham, Fayez, K.
Hull, D. *see* Stammers, J. P.

Jenkin, G. *see* Taylor, M. J.
Johnson, P. *see* Andersson, D.
Johnston, Barbara M. & Gluckman, P. D. GABA mediated inhibition of breathing in the late gestation sheep fetus, 353
Jones, C. T. & Ritchie, J. W. K. The effects of adrenergic blockade on fetal response to hypoxia, 211
Jones, C. T., Ritchie, J. W. K. & Walker, D. The effects of hypoxia on glucose turnover in the fetal sheep, 223
Jones, C. T. & Robinson, J. S. Studies on experimental growth retardation in sheep. Plasma catecholamines in fetuses with small placenta, 77
Jones, C. T. *see* Robinson, J. S.
Jones, C. T. *see* Rolph, T. P.

Kaslow, D. C. *see* Soifer, S. J.
Klappstein, S. *see* Girard, H.
Kingston, E. Jane *see* Robinson, J. S.

Lagercrantz, H. *see* Lundell, B. P. W.
Liggins, G. C. *see* Crone, R. K.
Longo, L. D. *see* Nelson, P. S.
Longo, L. D. *see* Smith, A. D.
Lowy, C. *see* Thomas, C. R.
Lundell, B. P. W. & Lagercrantz, H. Left ventricular systolic time intervals and plasma noradrenaline concentrations during acute hypovolaemia in newborn infants, 23
Lye, S. J. *see* Vilos, G. A.

McMillen, I. C. *see* Taylor, M. J.
Malee, M. P. & Marotta, S. F. Comparative *in vitro* responses of fetal, pregnant and non-pregnant rabbits' adrenal glands of steroidogenic agents, 143
Marotta, S. F. *see* Malee, M. P.
Marynissen, G., Aerts, L. & Van Assche, F. A. The endocrine pancreas during pregnancy and lactation in the rat, 373
Moll, W. *see* Girard, H.
Moran, J. Roberto & Ghishan, Fayez K. Postnatal intestinal maturation: alpha-aminoisobutyric acid loss during *in vivo* perfusion by hypertonic solutions, 259
Moran, Roberto, *see* Ghishan, Fayez K.
Morin, F. C. III. *see* Soifer, S. J.

Nelson, P. S., Gilbert, R. D. & Longo, L. D. Fetal growth and placental diffusing capacity in guinea pigs following long-term maternal exercise, 1
Nelson, P. S., *see* R. D. Gilbert
Nichols, Sharon *see* Ghishan, Fayez, K.